

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF AN H.I.B. FOR W.B. US 50 MOVEMENT AT THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 50 AND MD 565 IN TALBOT COUNTY. US 50 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH A EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR E.B. AND W.B. US 50 AND AN H.I.B. FOR THE WESTBOUND US 50 APPROACH.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER HOUSED IN A NEMA "6" BASE MOUNTED CABINET IS BEING USED. INSTALL A POLE MOUNTED "G" FLASHER CABINET AND CONTROLLER WITH 2-CIRCUIT FLASHER UNIT AND SPECIAL RELAY PACKAGE FOR H.I.B.

PHASE CHART

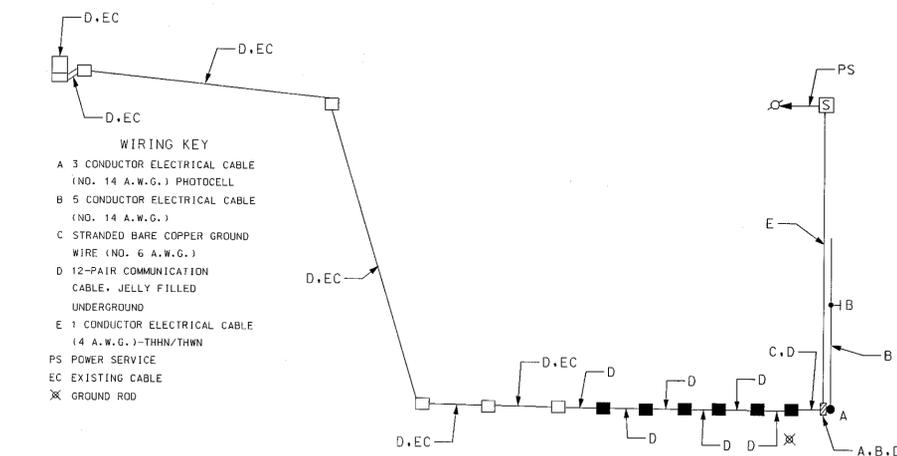
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|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| PHASE 1 & 5 | R | R | R | R | R | R | R | R | R | R | R | R | FL/RSA |
| 1 & 5 CHANGE | G | G | G | G | G | G | G | G | G | G | G | G | FL/RSA |
| PHASE 1 & 6 | R | R | R | R | R | R | R | R | R | R | R | R | FL/RSA |
| 1 & 6 CHANGE | G | G | G | G | G | G | G | G | G | G | G | G | FL/RSA |
| PHASE 2 & 5 | R | R | R | R | R | R | R | R | R | R | R | R | FL/SA |
| 2 & 5 CHANGE | G | G | G | G | G | G | G | G | G | G | G | G | FL/SA |
| PHASE 2 & 6 INITIAL | G | G | G | G | G | G | R | R | R | R | R | R | FL/SA |
| PHASE 2 & 6 | G | G | G | G | G | G | R | R | R | R | R | R | SA |
| PHASE 2 & 6 CLEAR | G | G | G | G | G | G | R | R | R | R | R | R | FL/RSA |
| 2 & 6 CHANGE | Y | Y | Y | Y | Y | Y | R | R | R | R | R | R | FL/RSA |
| PHASE 4 & 8 | R | R | R | R | R | R | G | G | G | G | G | G | FL/RSA |
| 4 & 8 CHANGE | R | R | R | R | R | R | Y | Y | Y | Y | Y | Y | FL/RSA |
| FLASHING OPERATION | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | FL/R | FL/R | SA |

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR.

| ITEM NO. | QUANTITY | DESCRIPTION |
|----------|----------|---|
| 1001 | 3 EA | MAINTENANCE OF TRAFFIC |
| 2002 | 1 CY | TEST PIT EXCAVATION |
| 6005 | 300 LF | FURNISH AND INSTALL TRAFFIC BARRIER W BEAM |
| 6007 | 1 EA | FURNISH AND INSTALL TYPE "B" TRAFFIC BARRIER END TREATMENT |
| 6007 | 2 EA | FURNISH AND INSTALL TYPE "I" TRAFFIC BARRIER END TREATMENT |
| 8051 | 1010 LF | FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED |
| 8052 | 50 LF | FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED |
| 8053 | 50 LF | FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED |
| 8057 | 5 CY | FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION |
| 8060 | 10 LF | FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE |
| 8069 | 1 EA | FURNISH AND INSTALL METERED PEDESTAL POLE |
| 8070 | 150 LF | FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G. THHN/THWN |
| 8072 | 6 EA | FURNISH AND INSTALL ELECTRICAL HANDHOLE |
| 8075 | 9 SF | INSTALL OVERHEAD SIGN |
| 8076 | 1830 LF | FURNISH AND INSTALL 12 PAIR COMMUNICATION CABLE UNDERGROUND |
| 8080 | 1 EA | FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH |
| 8083 | 30 LF | FURNISH AND INSTALL ELECTRICAL CABLE 3-CONDUCTOR NO. 14 AWG |
| 8084 | 50 LF | FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG |
| 8092 | 1 EA | INSTALL CONTROLLER AND CABINET POLE MOUNT |
| 8111 | 1 EA | FURNISH AND INSTALL MAST ARM POLE (60 FT. SERIES) WITH 22 FT. T DIMENSION AND BUTT SECTION ONLY |
| 8109 | 1 EA | FURNISH AND INSTALL "RED SIGNAL AHEAD" L.E.D. SIGN (60 IN. X 60 IN.) MAST ARM MOUNT |

WIRING DIAGRAM



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY MSHA.

| ITEM NO. | QUANTITY | DESCRIPTION |
|----------|----------|---|
| 9037 | 1 EA | TWO CIRCUIT FLASHER CABINET POLE MOUNT |
| 9571 | 9 SF | ALUMINUM SHEET W3-3 SIGN (36" X 36") POLE MOUNT |

CONTACT PERSONS FOR DISTRICT 2 ARE AS FOLLOWS:

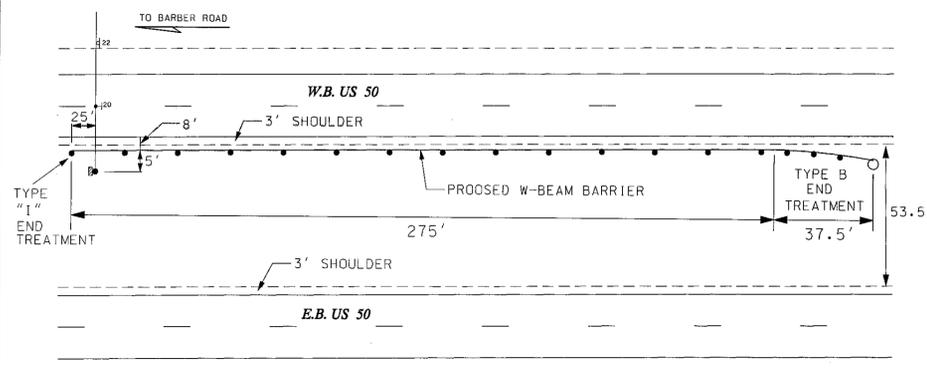
- MR. ROBERT KIEL, ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 778-3061
- MR. TERRY WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 778-3061
- MR. BARRY CLOTHIER, ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 778-3061

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

- MR. RICHARD DAFF, SR., CHIEF, TRAFFIC OPERATIONS (410) 787-7630
- MR. EUGENE BAILEY, TEAM LEADER SIGN OPERATIONS (410) 787-7676
- MR. ROBERT SNYDER, ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631
- MS. DARLENE EIDE, SUPPLY OFFICE, SIGNAL SHOP WAREHOUSE (410) 787-7668
- MR. ED RODENHIZER, TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

MR. EUGENE MASSICK
CONNECTIVE CONTACT
1-410-758-4101

PROPOSED W-BEAM DIMENSIONS



SCALE: NONE

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

| ITEM NO. | QUANTITY | DESCRIPTION |
|----------|----------|-------------|
| NONE | | |

ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473 EMAIL TRACONCEPT@AOL.COM

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION
US 50 AND MD 565 / BARBER ROAD

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|----------------------|----------------------|-----------------------|------------------|
| DRAWN BY: M.HOWELL | F.A.P. NO. XX1065485 | TS NO. 402-I-GI | SHEET NO. 2 OF 2 |
| CHECKED BY: T.ZAYDEL | S.H.A. NO. TALBOT | T.I.M.S. NO. F625 | |
| SCALE: 1" = 20' | COUNTY: TALBOT | LOG MILE: 20005014.82 | |
| DATE: 11-5-2004 | | | |